

Release notes for ENDF/B Development n-038_Sr_086
evaluation

ENDF
B-VII.dev

April 26, 2017

- checkr Warnings:

1. A previous error halted parsing of the current section
MAT=3831, MF= 1, MT=451 (1): Parsing stopped

```
ERROR(S) FOUND IN MAT=3831, MF= 1, MT=451
SECTION CANNOT BE CHECKED FROM SEQUENCE NUMBER      240 TO      290
```

- checkr Errors:

1. A variable is outside the allowed ENDF range
MAT=3831, MF= 1, MT=451 (0): Variable range

```
ERROR(S) FOUND IN MAT=3831, MF= 1, MT=451
MOD =      1 OUT OF RANGE      0 -      0      RECORD NUMBER      240
```

2. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3831, MF= 2, MT=151 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=3831, MF= 2, MT=151
SECTION 2/151 NOT IN DIRECTORY      RECORD NUMBER      292
```

3. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3831, MF= 3, MT= 1 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=3831, MF= 3, MT= 1
SECTION 3/ 1 NOT IN DIRECTORY      RECORD NUMBER      382
```

4. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3831, MF= 3, MT= 2 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=3831, MF= 3, MT= 2
SECTION 3/ 2 NOT IN DIRECTORY      RECORD NUMBER      410
```

5. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3831, MF= 3, MT= 4 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=3831, MF= 3, MT= 4
SECTION 3/ 4 NOT IN DIRECTORY      RECORD NUMBER      438
```

6. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3831, MF= 3, MT= 16 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=3831, MF= 3, MT= 16
SECTION 3/ 16 NOT IN DIRECTORY      RECORD NUMBER      453
```

7. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3831, MF= 3, MT= 22 (0): Directory (b)

ERROR(S) FOUND IN MAT=3831, MF= 3, MT= 22
SECTION 3/ 22 NOT IN DIRECTORY RECORD NUMBER 462

8. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3831, MF= 3, MT= 28 (0): Directory (b)

ERROR(S) FOUND IN MAT=3831, MF= 3, MT= 28
SECTION 3/ 28 NOT IN DIRECTORY RECORD NUMBER 474

9. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3831, MF= 3, MT= 51 (0): Directory (b)

ERROR(S) FOUND IN MAT=3831, MF= 3, MT= 51
SECTION 3/ 51 NOT IN DIRECTORY RECORD NUMBER 484

10. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3831, MF= 3, MT= 52 (0): Directory (b)

ERROR(S) FOUND IN MAT=3831, MF= 3, MT= 52
SECTION 3/ 52 NOT IN DIRECTORY RECORD NUMBER 499

11. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3831, MF= 3, MT= 53 (0): Directory (b)

ERROR(S) FOUND IN MAT=3831, MF= 3, MT= 53
SECTION 3/ 53 NOT IN DIRECTORY RECORD NUMBER 513

12. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3831, MF= 3, MT= 54 (0): Directory (b)

ERROR(S) FOUND IN MAT=3831, MF= 3, MT= 54
SECTION 3/ 54 NOT IN DIRECTORY RECORD NUMBER 526

13. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3831, MF= 3, MT= 55 (0): Directory (b)

ERROR(S) FOUND IN MAT=3831, MF= 3, MT= 55
SECTION 3/ 55 NOT IN DIRECTORY RECORD NUMBER 539

14. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3831, MF= 3, MT= 56 (0): Directory (b)

ERROR(S) FOUND IN MAT=3831, MF= 3, MT= 56
SECTION 3/ 56 NOT IN DIRECTORY RECORD NUMBER 551

15. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3831, MF= 3, MT= 57 (0): Directory (b)

- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=3831, MF= 3, MT= 57 | RECORD NUMBER | 563 |
| SECTION 3/ 57 NOT IN DIRECTORY | | |
16. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3831, MF= 3, MT= 58 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=3831, MF= 3, MT= 58 | RECORD NUMBER | 575 |
| SECTION 3/ 58 NOT IN DIRECTORY | | |
17. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3831, MF= 3, MT= 59 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=3831, MF= 3, MT= 59 | RECORD NUMBER | 586 |
| SECTION 3/ 59 NOT IN DIRECTORY | | |
18. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3831, MF= 3, MT= 60 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=3831, MF= 3, MT= 60 | RECORD NUMBER | 597 |
| SECTION 3/ 60 NOT IN DIRECTORY | | |
19. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3831, MF= 3, MT= 61 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=3831, MF= 3, MT= 61 | RECORD NUMBER | 608 |
| SECTION 3/ 61 NOT IN DIRECTORY | | |
20. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3831, MF= 3, MT= 62 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=3831, MF= 3, MT= 62 | RECORD NUMBER | 618 |
| SECTION 3/ 62 NOT IN DIRECTORY | | |
21. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3831, MF= 3, MT= 63 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=3831, MF= 3, MT= 63 | RECORD NUMBER | 628 |
| SECTION 3/ 63 NOT IN DIRECTORY | | |
22. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3831, MF= 3, MT= 91 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=3831, MF= 3, MT= 91 | RECORD NUMBER | 637 |
| SECTION 3/ 91 NOT IN DIRECTORY | | |
23. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3831, MF= 3, MT=102 (0): Directory (b)

- | | | | |
|--|---|---------------|-----|
| | ERROR(S) FOUND IN MAT=3831, MF= 3, MT=102 | | |
| | SECTION 3/102 NOT IN DIRECTORY | RECORD NUMBER | 646 |
24. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3831, MF= 3, MT=103 (0): Directory (b)
- | | | | |
|--|---|---------------|-----|
| | ERROR(S) FOUND IN MAT=3831, MF= 3, MT=103 | | |
| | SECTION 3/103 NOT IN DIRECTORY | RECORD NUMBER | 668 |
25. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3831, MF= 3, MT=104 (0): Directory (b)
- | | | | |
|--|---|---------------|-----|
| | ERROR(S) FOUND IN MAT=3831, MF= 3, MT=104 | | |
| | SECTION 3/104 NOT IN DIRECTORY | RECORD NUMBER | 682 |
26. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3831, MF= 3, MT=105 (0): Directory (b)
- | | | | |
|--|---|---------------|-----|
| | ERROR(S) FOUND IN MAT=3831, MF= 3, MT=105 | | |
| | SECTION 3/105 NOT IN DIRECTORY | RECORD NUMBER | 693 |
27. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3831, MF= 3, MT=107 (0): Directory (b)
- | | | | |
|--|---|---------------|-----|
| | ERROR(S) FOUND IN MAT=3831, MF= 3, MT=107 | | |
| | SECTION 3/107 NOT IN DIRECTORY | RECORD NUMBER | 701 |
28. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3831, MF= 3, MT=111 (0): Directory (b)
- | | | | |
|--|---|---------------|-----|
| | ERROR(S) FOUND IN MAT=3831, MF= 3, MT=111 | | |
| | SECTION 3/111 NOT IN DIRECTORY | RECORD NUMBER | 716 |
29. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3831, MF= 4, MT= 2 (0): Directory (b)
- | | | | |
|--|--|---------------|-----|
| | ERROR(S) FOUND IN MAT=3831, MF= 4, MT= 2 | | |
| | SECTION 4/ 2 NOT IN DIRECTORY | RECORD NUMBER | 727 |
30. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3831, MF= 4, MT= 16 (0): Directory (b)
- | | | | |
|--|---|---------------|-----|
| | ERROR(S) FOUND IN MAT=3831, MF= 4, MT= 16 | | |
| | SECTION 4/ 16 NOT IN DIRECTORY | RECORD NUMBER | 906 |
31. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3831, MF= 4, MT= 22 (0): Directory (b)

- | | | | |
|--|---|---------------|-----|
| | ERROR(S) FOUND IN MAT=3831, MF= 4, MT= 22 | | |
| | SECTION 4/ 22 NOT IN DIRECTORY | RECORD NUMBER | 917 |
32. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3831, MF= 4, MT= 28 (0): Directory (b)
- | | | | |
|--|---|---------------|-----|
| | ERROR(S) FOUND IN MAT=3831, MF= 4, MT= 28 | | |
| | SECTION 4/ 28 NOT IN DIRECTORY | RECORD NUMBER | 928 |
33. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3831, MF= 4, MT= 51 (0): Directory (b)
- | | | | |
|--|---|---------------|-----|
| | ERROR(S) FOUND IN MAT=3831, MF= 4, MT= 51 | | |
| | SECTION 4/ 51 NOT IN DIRECTORY | RECORD NUMBER | 939 |
34. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3831, MF= 4, MT= 52 (0): Directory (b)
- | | | | |
|--|---|---------------|-----|
| | ERROR(S) FOUND IN MAT=3831, MF= 4, MT= 52 | | |
| | SECTION 4/ 52 NOT IN DIRECTORY | RECORD NUMBER | 962 |
35. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3831, MF= 4, MT= 53 (0): Directory (b)
- | | | | |
|--|---|---------------|-----|
| | ERROR(S) FOUND IN MAT=3831, MF= 4, MT= 53 | | |
| | SECTION 4/ 53 NOT IN DIRECTORY | RECORD NUMBER | 985 |
36. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3831, MF= 4, MT= 54 (0): Directory (b)
- | | | | |
|--|---|---------------|------|
| | ERROR(S) FOUND IN MAT=3831, MF= 4, MT= 54 | | |
| | SECTION 4/ 54 NOT IN DIRECTORY | RECORD NUMBER | 1008 |
37. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3831, MF= 4, MT= 55 (0): Directory (b)
- | | | | |
|--|---|---------------|------|
| | ERROR(S) FOUND IN MAT=3831, MF= 4, MT= 55 | | |
| | SECTION 4/ 55 NOT IN DIRECTORY | RECORD NUMBER | 1031 |
38. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3831, MF= 4, MT= 56 (0): Directory (b)
- | | | | |
|--|---|---------------|------|
| | ERROR(S) FOUND IN MAT=3831, MF= 4, MT= 56 | | |
| | SECTION 4/ 56 NOT IN DIRECTORY | RECORD NUMBER | 1054 |
39. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3831, MF= 4, MT= 57 (0): Directory (b)

- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3831, MF= 4, MT= 57 | RECORD NUMBER | 1077 |
| SECTION 4/ 57 NOT IN DIRECTORY | | |
40. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3831, MF= 4, MT= 58 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3831, MF= 4, MT= 58 | RECORD NUMBER | 1100 |
| SECTION 4/ 58 NOT IN DIRECTORY | | |
41. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3831, MF= 4, MT= 59 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3831, MF= 4, MT= 59 | RECORD NUMBER | 1123 |
| SECTION 4/ 59 NOT IN DIRECTORY | | |
42. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3831, MF= 4, MT= 60 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3831, MF= 4, MT= 60 | RECORD NUMBER | 1146 |
| SECTION 4/ 60 NOT IN DIRECTORY | | |
43. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3831, MF= 4, MT= 61 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3831, MF= 4, MT= 61 | RECORD NUMBER | 1169 |
| SECTION 4/ 61 NOT IN DIRECTORY | | |
44. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3831, MF= 4, MT= 62 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3831, MF= 4, MT= 62 | RECORD NUMBER | 1192 |
| SECTION 4/ 62 NOT IN DIRECTORY | | |
45. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3831, MF= 4, MT= 63 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3831, MF= 4, MT= 63 | RECORD NUMBER | 1215 |
| SECTION 4/ 63 NOT IN DIRECTORY | | |
46. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3831, MF= 4, MT= 91 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3831, MF= 4, MT= 91 | RECORD NUMBER | 1238 |
| SECTION 4/ 91 NOT IN DIRECTORY | | |
47. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3831, MF= 5, MT= 16 (0): Directory (b)

ERROR(S) FOUND IN MAT=3831, MF= 5, MT= 16
SECTION 5/ 16 NOT IN DIRECTORY RECORD NUMBER 1262

48. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3831, MF= 5, MT= 22 (0): Directory (b)

ERROR(S) FOUND IN MAT=3831, MF= 5, MT= 22
SECTION 5/ 22 NOT IN DIRECTORY RECORD NUMBER 1302

49. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3831, MF= 5, MT= 28 (0): Directory (b)

ERROR(S) FOUND IN MAT=3831, MF= 5, MT= 28
SECTION 5/ 28 NOT IN DIRECTORY RECORD NUMBER 1436

50. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3831, MF= 5, MT= 91 (0): Directory (b)

ERROR(S) FOUND IN MAT=3831, MF= 5, MT= 91
SECTION 5/ 91 NOT IN DIRECTORY RECORD NUMBER 1515

• **psyche** Warnings:

1. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 86. L = 0 / AT RESONANCE ENERGY 1.15100E+04 EV. THE GAMMA WIDTH 1.60000E-01 DEVIATES TOO MUCH FROM THE AVERAGE 5.56636E-01 (0): Gamma width

FILE 2
SECTION 151
ISOTOPE MASS = 86. L = 0
AT RESONANCE ENERGY 1.15100E+04 EV. THE GAMMA WIDTH 1.60000E-01 DEVIATES TOO MUCH FROM THE AVERAGE 5.56636E-01 (0): Gamma width

2. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 86. L = 0 / AT RESONANCE ENERGY 1.54500E+04 EV. THE GAMMA WIDTH 1.40000E-01 DEVIATES TOO MUCH FROM THE AVERAGE 5.56636E-01 (0): Gamma width

FILE 2
SECTION 151
ISOTOPE MASS = 86. L = 0
AT RESONANCE ENERGY 1.54500E+04 EV. THE GAMMA WIDTH 1.40000E-01 DEVIATES TOO MUCH FROM THE AVERAGE 5.56636E-01 (0): Gamma width

3. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 86. L = 0 / AT RESONANCE ENERGY 1.84450E+04 EV. THE GAMMA WIDTH 8.00000E-02 DEVIATES TOO MUCH FROM THE AVERAGE 5.56636E-01 (0): Gamma width

FILE 2
SECTION 151
ISOTOPE MASS = 86. L = 0
AT RESONANCE ENERGY 1.84450E+04 EV. THE GAMMA WIDTH 8.00000E-02 DEVIATES TOO MUCH FROM THE AVERAGE 5.56636E-01 (0): Gamma width

4. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 86. L = 0 / AT RESONANCE ENERGY 2.28500E+04 EV. THE GAMMA WIDTH 3.27200E+00 DEVIATES TOO MUCH FROM THE AVERAGE 5.56636E-01 (0): Gamma width

```
FILE 2
SECTION 151
ISOTOPE MASS = 86. L = 0
AT RESONANCE ENERGY 2.28500E+04 EV. THE GAMMA WIDTH 3.27200E+00 DEVIATES TOO MUCH FROM THE AV
```

5. Strength function in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 86. L = 0 / STRENGTH FUNCTION IS 1.36398E-04 / STRENGTH FUNCTION 1.36398E-04 / LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04 (0): URR str. ftn.

```
FILE 2
SECTION 151
ISOTOPE MASS = 86. L = 0
STRENGTH FUNCTION IS 1.36398E-04
STRENGTH FUNCTION 1.36398E-04
... [1 more lines]
```

6. Strength function in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 86. L = 1 / STRENGTH FUNCTION IS 3.21713E-05 / STRENGTH FUNCTION 3.21713E-05 / LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04 (0): URR str. ftn.

```
FILE 2
SECTION 151
ISOTOPE MASS = 86. L = 1
STRENGTH FUNCTION IS 3.21713E-05
STRENGTH FUNCTION 3.21713E-05
... [1 more lines]
```

- groupie Errors:

1. Very small elastic cross section found
0: Small elastic

```
Multi-Group and Multi-Band Parameters from ENDF/B Data (GROUPIE 2015-2)
-----
ENDF/B Input and Output Data Filenames
ENDFB.IN
ENDFB.OUT
... [97 more lines]
```

- fudge-4.0 Warnings:

1. Missing a channel with a particular angular momenta combination
resonances / resolved / MultiLevelBreitWigner (Error # 0): missingResonanceChannel

```
WARNING: Missing a channel with angular momenta combination L = 0, J = 1.5 and S = 1.5 for "capture"
WARNING: Missing a channel with angular momenta combination L = 1, J = 0.5 and S = 1.5 for "capture"
WARNING: Missing a channel with angular momenta combination L = 1, J = 1.5 and S = 1.5 for "capture"
WARNING: Missing a channel with angular momenta combination L = 1, J = 2.5 and S = 1.5 for "capture"
```

2. Cross section does not match sum of linked reaction cross sections
crossSectionSum label 0: total (Error # 0): CS Sum.

WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 0.25%

3. Cross section does not match sum of linked reaction cross sections
crossSectionSum label 1: (z,n) (Error # 0): CS Sum.

WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 0.14%

• fudge-4.0 Errors:

1. Calculated and tabulated Q values disagree.
reaction label 15: n[multiplicity:'2'] + Sr85 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -11453260.29498291 eV vs -1.14932e7 eV!

2. Calculated and tabulated Q values disagree.
reaction label 16: n + H1 + Rb85 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -9606154.481918335 eV vs -9646930. eV!

3. Calculated and tabulated Q values disagree.
reaction label 17: Sr87 + gamma (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: 8467215.408920288 eV vs 8428190. eV!

4. Calculated and tabulated Q values disagree.
reaction label 18: n + He4 + Kr82 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -6319922.735656738 eV vs -6342980. eV!

5. Calculated and tabulated Q values disagree.
reaction label 19: H1[multiplicity:'2'] + Kr85 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -9510872.263244629 eV vs -9551470. eV!

6. Calculated and tabulated Q values disagree.
reaction label 20: H1 + Rb86-s (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -955151.5401153564 eV vs -991935. eV!

7. Calculated and tabulated Q values disagree.
reaction label 21: H2 + Rb85-s (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -7381588.380981445 eV vs -7336810. eV!

8. Calculated and tabulated Q values disagree.
reaction label 22: H3 + Rb84-s (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -11612978.16725159 eV vs -1.16346e7 eV!

9. Calculated and tabulated Q values disagree.
reaction label 23: He4 + Kr83-s (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: 1143595.759628296 eV vs 1126710. eV!

- njoy2012 Warnings:

1. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!

grouppr...compute self-shielded group-averaged cross-sections (0): GROUPR/conver (0)

```
---message from conver---cannot do complete particle production for mt= 16
                           only mf4/mf5 provided
```

2. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!

grouppr...compute self-shielded group-averaged cross-sections (1): GROUPR/conver (0)

```
---message from conver---cannot do complete particle production for mt= 22
                           only mf4/mf5 provided
```

3. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!

grouppr...compute self-shielded group-averaged cross-sections (2): GROUPR/conver (0)

```
---message from conver---cannot do complete particle production for mt= 28
                           only mf4/mf5 provided
```

4. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!

grouppr...compute self-shielded group-averaged cross-sections (3): GROUPR/conver (0)

```
---message from conver---cannot do complete particle production for mt= 91
                           only mf4/mf5 provided
```